

Revision B\V1.0.1

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1 INTRODUCTION

The Offshore System's NMEA2000® Dual Engine Display has a 19.2" diagonal display area and has a high bright sunlight readable 1200 cd/m2 display.

The Dual Engine Display can monitor two user selectable engines simultaneously, with alarm monitoring and logging.

It is supplied with a wired remote button panel, which can control the brightness of the backlight to the display, acknowledge and clear alarm conditions

1.1 PRODUCT FEATURES

The Offshore System's NMEA2000® Dual Engine Display has the following features:

- Sunlight readable dimmable display using our BlackGlass™ technology
- 1920 x 360 Resolution
- Remote button panel providing: Backlight up/down, Alarm Mute
- Monitoring of vessels engine status with alarms
- Internal 105dB Sounder
- Includes 1 x NMEA2000® and J1939 interfaces
- Switchable internal line terminator resistors for J1939 interfaces
- User selectable Engine Manufacturer (MTU, MANN, Caterpillar) via rotary switch on rear of display
- User selectable metric or US imperial units
- Toughened glass
- Front of display has IP65 rating, rear IP20

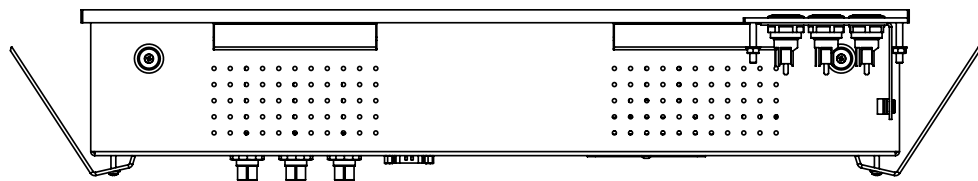
2.1 UNPACKING THE BOX

You will find the following items in the shipping box:

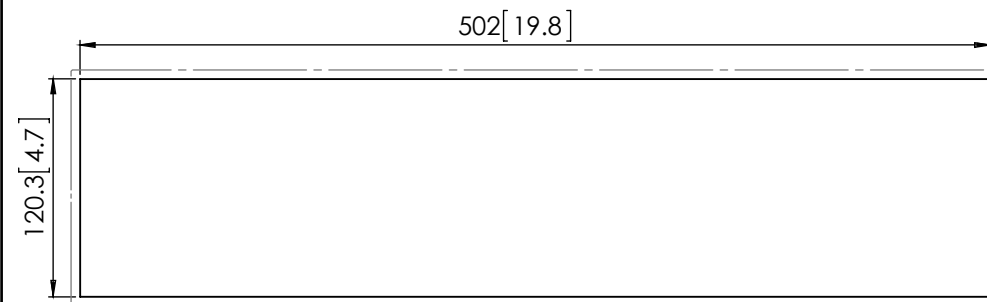
- 1 x Dual Engine Display
- 1 x Remote button panel
- 1 x DC Power cable
- 2 x Mounting Brackets
- 1 x Bag containing 4 thumbwheel nuts & 4 sprung washers for button panel
- 1 x Bag containing 4 screws & 4 washers for mounting brackets
- 1 x User Manual (This Document)
- 1 x Mounting cut out template

2.2 MOUNTING THE UNIT

1. The unit should be mounted through a panel to a flat surface min 8mm, max 25mm.
2. It can be mounted 45 degrees either way of vertical.
3. Ensure an adequate ventilation around the product to prevent heat build up or a minimum of 50mm.
4. Remember to allow enough clearance for access to cables and connectors. Cables should be restrained to prevent damage to connectors.
5. The unit should be sealed to the mounting surface using a suitable silicone sealant. This Silicone sealant will be part of the seal used to provide the IP rating for the product.
6. Using the 4 mounting brackets to clamp the display to the rear of the mounting substrate, fix with the provided screws with washer under the head.



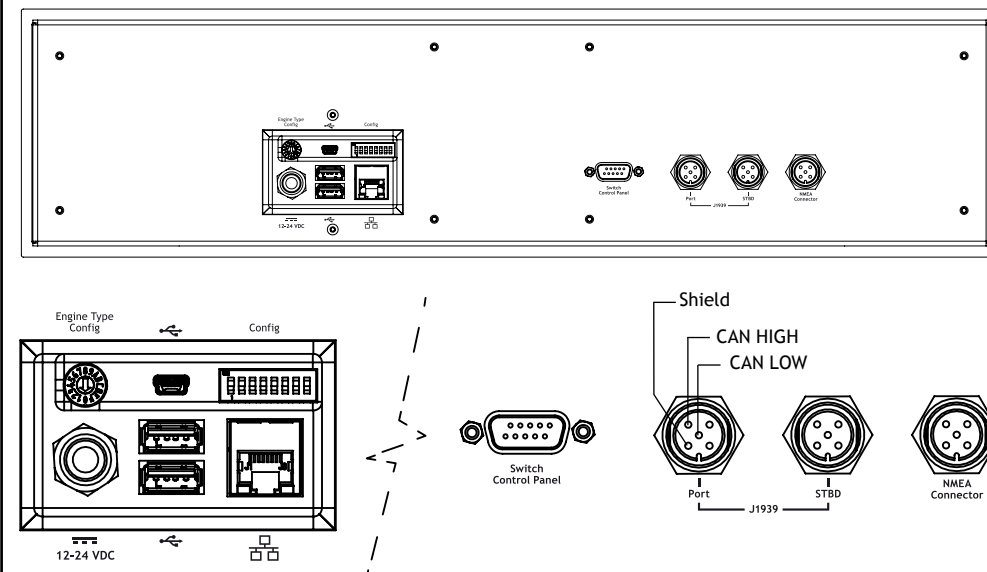
Drawing showing panel cut out. Please also see dimensional drawing in section 6.



2.3 CONNECTING THE DUAL ENGINE DISPLAY

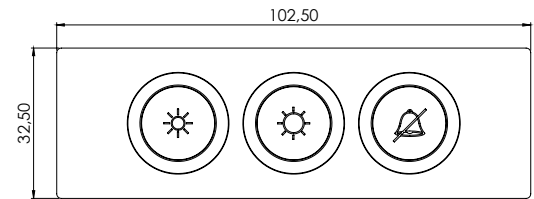
Before making any connections to the unit, ensure the NMEA2000® bus power and DC supply are turned off.

Connect NMEA2000® cable to 'Socket' on the back of the unit, observing correct orientation to ensure the keyway aligns. The cable can be extended up to 6mtrs and connect into the T-adapter on the network backbone. Ensure that the screw ring is securely tightened so that the connection remains sound. Connect the two J1939 cables in the same manner. Ethernet connector is for internal Offshore programming use ONLY. The DC Power cable can be inserted into the port marked. Ensure correct orientation and make sure the screw ring is securely tightened. There are two USB A and one USB OTG connectors, these are not for customer use and are intended for future Offshore Systems usage. Connect the Control Panel D Type Connector to the 9Way Switch Control Panel.

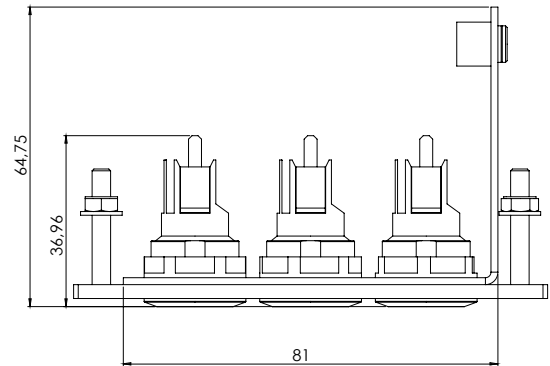


2.4 MOUNTING THE CONTROL PANEL

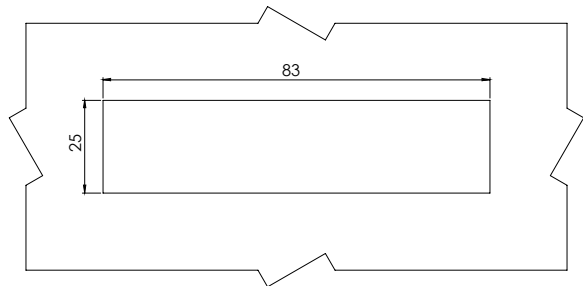
Please see line drawing showing outline, mounting studs and mounting area for the Control Panel.



FRONT VIEW



TOP VIEW



PANEL MOUNT CUTOUT

3 USER CONTROLS

The Remote panel is provided with a 1m cable tail for situation away from the Display.

3.1 BUTTON FUNCTIONS



DIM



BRIGHT



ALARM MUTE

Button	Function
DIM	Each press will decrement the brightness level, holding the button will continue to decrement until the minimum level is reached.
BRIGHT	Each button will increment the brightness level, holding the Button will continue to increment until the minimum level is reached.
ALARM MUTE	This will mute all current active alarm conditions

- The display will power on automatically when the DC is connected to it.
- After approx 1 minute the computer will boot up into the home screen.
- Set your desired backlight brightness as per in this table.

4

SELECTING ENGINE MANUFACTURER

On the rear of the unit is situated a DIP & Rotary Switch, the function is as follows:

DIP Switch:

Switch No	Function
1	On = Imperial units, OFF SI units
7	ON = PORT J1939 Line Termination resistor in circuit
8	ON = STBD J1939 Line Termination resistor in circuit

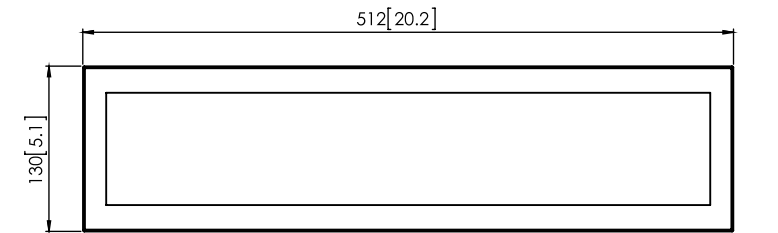
Rotary switch

Switch No	Function
0	2000® Engine Data Source
1	Caterpillar
2	MTU
3	MAN
4	Volvo
5	TBA
6	TBA
7	TBA
8	TBA
9	TBA
A	TBA
B	TBA
C	TBA
D	TBA
E	TBA
F	TBA

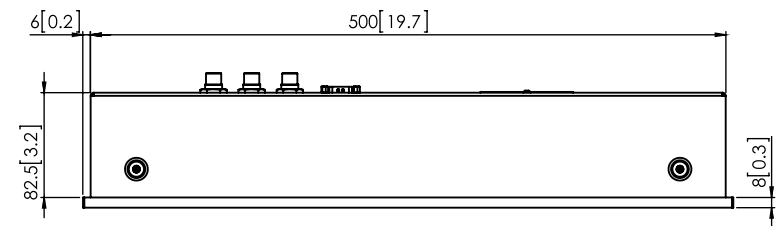
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UNIT DIMENSIONS

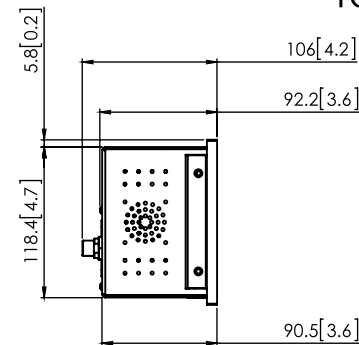
Dual Engine Display



FRONT VIEW



TOP VIEW



LEFT VIEW

If you require technical support for any Offshore Systems products you can reach us using any of the following ways:

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WARRANTY RETURN PROCEDURE

To apply for warranty claims, contact Offshore Systems or one of its dealers to describe the problem and determine the appropriate course of action. If a return is necessary, place the product in its original packaging together with proof of purchase and send to an Authorized Offshore Systems Service Location. You are responsible for all shipping and insurance charges. Offshore Systems will return the replaced or repaired product with all shipping and handling prepaid except for requests requiring expedited shipping (i.e. overnight shipments). Failure to follow this warranty return procedure could result in the product's warranty becoming null and void.

Offshore Systems reserves the right to modify or replace, at its sole discretion, without prior notification, the warranty listed above.

Up to 16 each type of Sender can be installed on a single network